

IN THE CLAIMS:

1. (Cancelled)

2. (Previously Presented) An apparatus for forming a three-dimensional product by applying binder to powder material to form bound bodies successively, said bound bodies corresponding to sectional data blocks which are produced by slicing an original object with parallel planes, said apparatus comprising:

a layer forming mechanism for forming a layer of said powder material;

an applying head for applying plural kinds of materials to said layers, said plural kinds of materials including at least one kind of binder; and

a controller for controlling said applying head to apply said plural kinds of materials selectively to a predetermined region on said layer, wherein

controlling said applying head by said controller to apply said plural kinds of material selectively to a predetermined region on said layer includes applying a first material included in said plural kinds of materials and having a first time for becoming stable, after application of a second material included in said plural kinds of materials and having a second time for becoming stable, less than the first time.

3. (Previously Presented) An apparatus for forming a three-dimensional product by applying binder to powder material to form bound bodies successively, said bound bodies

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corresponding to sectional data blocks which are produced by slicing an original object with parallel planes, said apparatus comprising:

a layer forming mechanism for forming a layer of said powder material;

an applying head for applying plural kinds of materials to said layers, said plural kinds of materials including at least one kind of binder; and

a controller for controlling said applying head to apply said plural kinds of materials selectively to a predetermined region on said layer, said plural kinds of materials include a binder and an ink, wherein

controlling said applying head by said controller to apply said plural kinds of materials selectively to a predetermined region on said layer includes applying said binder after applying said ink.

Claims 4-11 (Cancelled)

12. (Previously Presented) An apparatus for forming a three-dimensional product by applying binder to powder material to form bound bodies successively, said bound bodies corresponding to sectional data blocks which are produced by slicing an original object with parallel planes, said apparatus comprising:

a layer forming mechanism for forming a layer of said powder material;

an applying head for applying plural kinds of materials to said layers, said plural kinds of materials including at least one kind of binder; and

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a controller for controlling said applying head to apply said plural kinds of materials selectively to a predetermined region on said layer, wherein

said applying head applies a plurality of binders to said predetermined region, said plurality of binders having different colors from one another,

said predetermined region is include a coloring region and non-coloring region, and

said powder material is bound with said plurality of binders selectively in said coloring region and with one of said plurality of binders in said non-coloring region

said apparatus further comprising:

a plurality of tanks for containing said plurality of binders and supplying said plurality of binders to said applying head; and

detectors for detecting an amount of each of said plurality of binders remaining in each said plurality of tanks, wherein

the controller controls said applying head to apply a binder which has the greatest remaining amount to said non-coloring region.

Claims 13-22 (Cancelled)

23. (Previously Presented) An apparatus for forming a three-dimensional product by applying binder to powder material to form bound bodies successively, said bound bodies corresponding to sectional data blocks which are produced by slicing an original object with parallel planes, said apparatus comprising:

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a layer forming mechanism for forming a layer of said powder material;

an applying head for applying plural kinds of materials to said layers, said plural kinds of materials including at least one kind of binder; and

a controller for controlling said applying head to apply said plural kinds of materials selectively to a predetermined region on said layer, wherein

said layer forming mechanism comprises:

powder supplier for forming a left-side heap and a right-side heap of said powder material on left and right sides of a space where said three-dimensional product is formed; and

a left-side powder spreading member and a right-side powder spreading member provided on left and right sides of said applying head, respectively,

in case of moving said applying head from left to right, said right-side powder spreading member spreads said left-side heap to right direction to form a layer of said powder material, and

in case of moving said applying head from right to left, said left-side powder spreading member spreads said right-side heap to left direction to form a layer of said powder material.

24. (Original) The apparatus of claim 23, wherein

said right-side powder spreading member and said left-side powder spreading member move up and down alternately, and

while one powder spreading member is forming a layer of said powder material, another spreading member retreats upward.

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Claim 25 (Withdrawn) A method of forming a three-dimensional product by applying binder to powder material to form bound bodies successively, said bound bodies corresponding to sectional data blocks which are produced by slicing an original object with parallel planes, said method comprising the steps of:

- a) forming a layer of said powder material;
- b) applying plural kinds of materials selectively to a predetermined region on said layer, said plural kinds of materials including a least one kind of binder; and
- c) repeating said steps a) and b).

Claims 26 and 27 (Cancelled)

Claim 28 (Withdrawn) A method of forming a three-dimensional product by applying binder to powder material, said three-dimensional product corresponding to an original object, said method comprising the steps of:

- a) forming a layer of powder material which has thermo plasticity;
- b) applying material including binder to said layer and forming a bound body corresponding to a section of said original object;
- c) repeating said steps a) and b), to thereby laminate bound bodies and form a three-dimensional product, said bound bodies corresponding to sections which are sliced off from said original object with parallel planes; and
- d) heating said three-dimensional product.

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Claim 29 (Withdrawn) The method of claim 28, wherein light is applied to said three-dimensional product in said step d).

Claim 30 (Withdrawn) The method of claim 28, wherein said powder material is made of thermo-plastic resin.

Claim 31 (Withdrawn) The method of 30, wherein said powder material is toner for electrophotography.

Claim 32 (Withdrawn) The method of claim 28, wherein said powder material is colorless and transparent, or white.